Demo flow for Notebooks Presentation

1. Start SQL Server
2. Open Azure Data Studio
3. Create Notebook
   1. Open Notebook icon on side tool bar
   2. Click on the … next to Notebooks with icons to show there is no option to add a notebook
   3. Click on welcome tab to show the shortcut there as well as in the file menu at the top
   4. Use one of those two options to create a notebook
4. Add Code to Notebook
   1. Show the various kernels (top center of notebook) for the notebook and talk about the focus on SQL
   2. Go to "Attach to – Select Connection". Click on down arrow and select "Change Connection"
   3. Choose "WideWorldImportersDW" from the connection options and click "Connect"
   4. Click +Cell down arrow and click on "Code cell" to add code cell
   5. Type the following code in it: Select \* from Dimension.Customer
   6. Run Code (play button)
   7. Discuss results
   8. Clear results by clicking eraser on top right
5. Add Text to Notebook
   1. Click +Cell down arrow and click on "Text Cell" to add text cell
   2. Type comment – "This code returns a customer list"; click on up arrow to move text above code
   3. Go to File and Save notebook- name the notebook “Customer List Notebook” – make sure it is saving under "mycode" and as File Type: Notebook
   4. Close Notebook TAB
6. Create a Jupyter Book
   1. Click on the … in the notebook section and choose "Create Jupyter Book"
   2. Type in Name "Sample Jupyter Book"
   3. Save Location – click on folder icon to choose … \GitHub\mycode and click on Select Folder;
   4. Click Create
   5. Show how to work with README file- double click in the white space next to README file to add (next to 1) a sentence "Welcome to my Jupyter Book"
   6. Click on "Preview README.md" tab to show sentence
   7. Close both README tabs
7. Add new notebook to the Jupyter Book
   1. Right click on "Sample Jupyter Book" and choose "New Notebook"
   2. Type Title "Sales Data"
   3. Type File Name "Sales Data"
   4. Click Add
8. Add Code
   1. Go to File and Open Recent to choose "sample queries for notebook presentation.sql"
   2. Go back to Sample Jupyter Book tab and click on +Cell to add a Text Cell
   3. Type "Sales Notebook", Enter, "Selecting sales" in Text Box
   4. Highlight "Sales Notebook", click on Text Size, Choose Heading 1
   5. Click the + symbol and choose "Code Cell"
   6. Copy Query 1 - Go to Sample Tab and copy and paste "Select Top . . . " into code bar on Sales Data tab
   7. Run code (click play button)
   8. If needed – attach to WideWorldImporters DW
   9. Clear the results using the eraser
   10. Click the + symbol and choose "Text Cell"
   11. Type "Creating a View"
   12. Click the + symbol and choose "Code Cell"
   13. Copy Query 2 - Go to Sample Tab and copy and paste several lines under "Query 2" into code bar on Sales Data tab
   14. Run code (click play button)
   15. Clear the results using the eraser
   16. Collapse cells by clicking on up arrow next to eraser
   17. Click the + symbol and choose "Text Cell"
   18. Type "Use the new view"
   19. Click the + symbol and choose "Code Cell"
   20. Copy Query 3 - Go to Sample Tab and copy and paste several lines under "Query 3" into code bar on Sales Data tab
   21. Run code (click play button)
9. Work with Charts and Exports
   1. On the third query, click Chart button (looks like bar graph above table that was just run)
   2. Click on "Configure Chart" above bar graph (gear icon)
      1. Check next to "Use first column as row label" and Close
   3. Hover over various export options (icons above bar graph)
10. Add previous notebook to your Jupyter Book
    1. Open Explorer from side tool bar (2 pieces of paper icon)
    2. Click on "Customer List Notebook.ipynb"
    3. Go to File and Save As – Double click on Sample Jupyter Book folder and Save As Type: Notebook - Save
    4. Click on \_toc.yml
    5. Copy and paste title and file lines (lines 3 and 4) to create lines 5 and 6
       1. 5 -title: Customer List Notebook
       2. 6 file: /Customer List Notebook
    6. Click on File and Save
    7. Click on Notebook icon on side bar to see if notebook was added to Jupyter Book
11. Open Jupiter book with FHIR content to demonstrate complete notebook
    1. Open Notebook (small open book icon near …)
    2. Go to GitHub, codeshare, SQL Saturday Oregon 2022, Effectively integrating FHIR . . . ; Click on Select Jupyter Book
    3. Click on the notebook and scroll down to show example
12. Show how to access remote Jupyter Books from Microsoft
    1. Click on the … in the notebook section and choose "Add Remote Jupyter Book"
    2. Repository URL – down arrow and choose first option; Click Search
    3. Choose first option for each remaining drop down option and click Add
13. Show how to access remote Jupyter Books from Data On Wheels
    1. Click on the … in the notebook section and choose "Add Remote Jupyter Book"
    2. Repository URL – type in "repos/DataOnWheels/notebooks"; Click Search
    3. Choose first option for each remaining drop down option and click Add
14. Time for Q&A